

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P526913

Luminaire Tested: **GALN-SA1D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394 lumens
Efficiency: N/A
Efficacy: 52.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

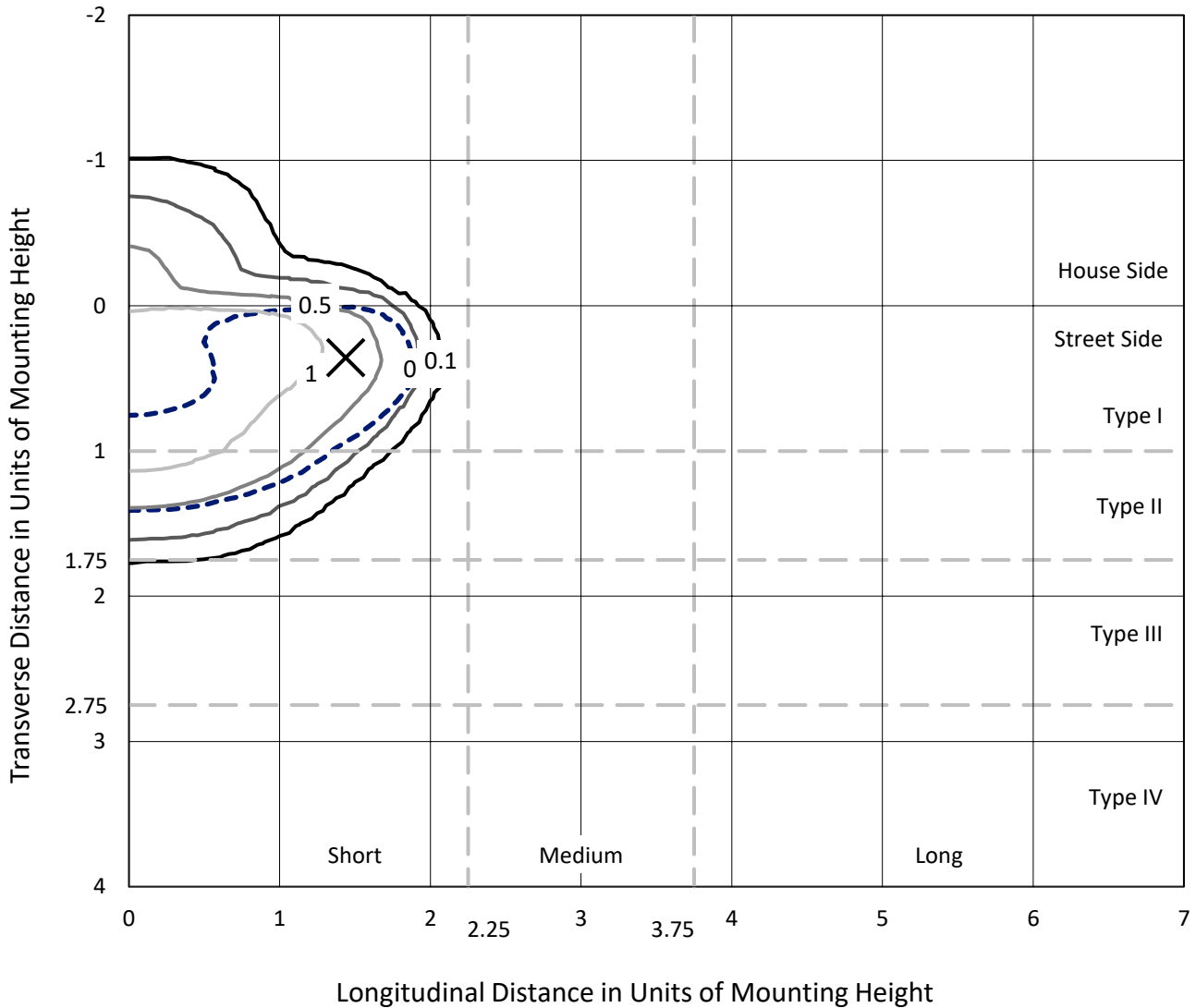
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

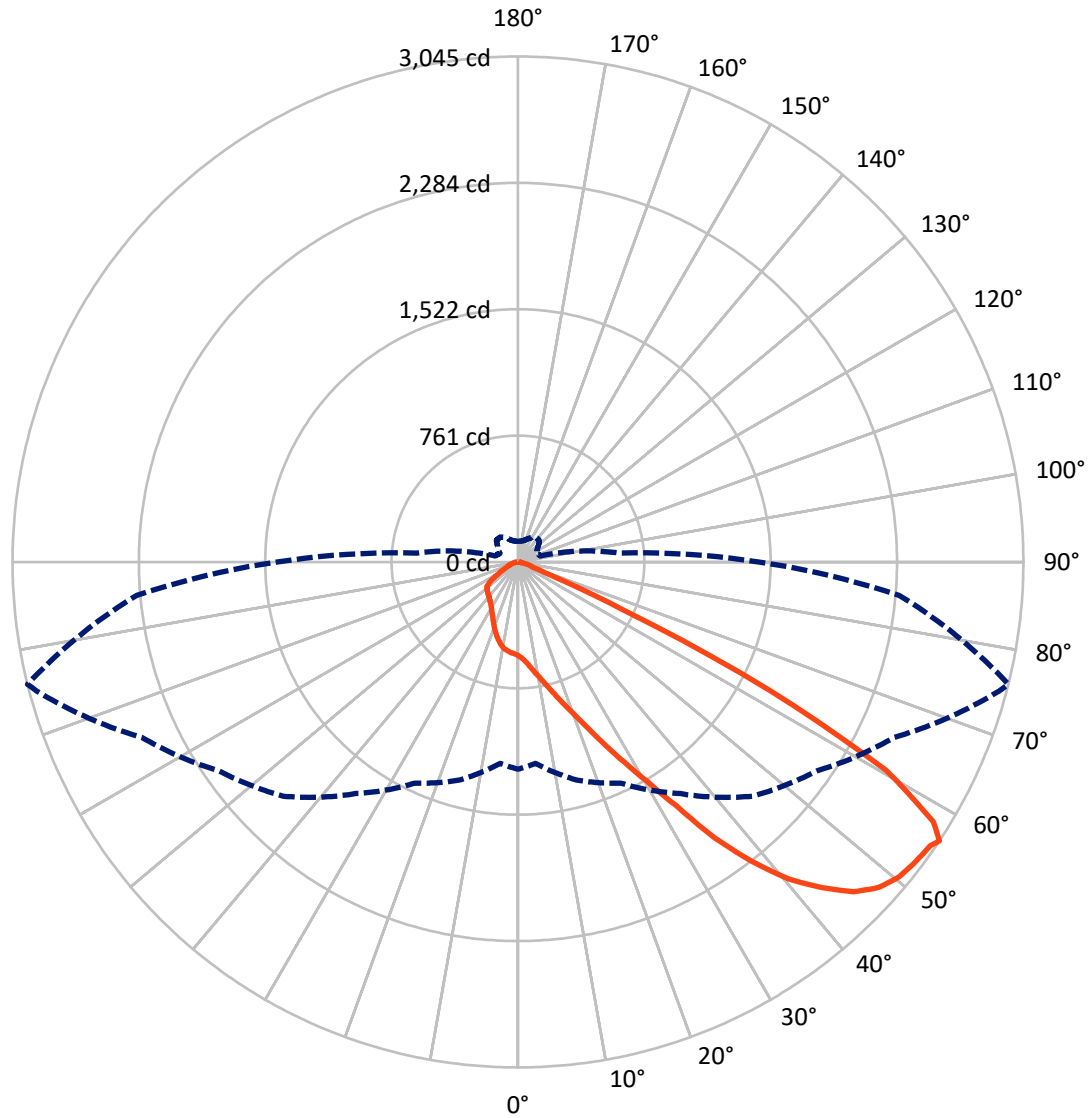
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.2	0.0	533.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2860.8	0.0	2860.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	3394.0	0.0	3394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.7
10°-20°	182.8	5.4
20°-30°	331.5	9.8
30°-40°	571.7	16.8
40°-50°	928.8	27.4
50°-60°	979.0	28.8
60°-70°	299.1	8.8
70°-80°	38.4	1.1
80°-90°	5.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3394.0	100.0
0°-180°	3394.0	100.0

Coefficient of Utilization



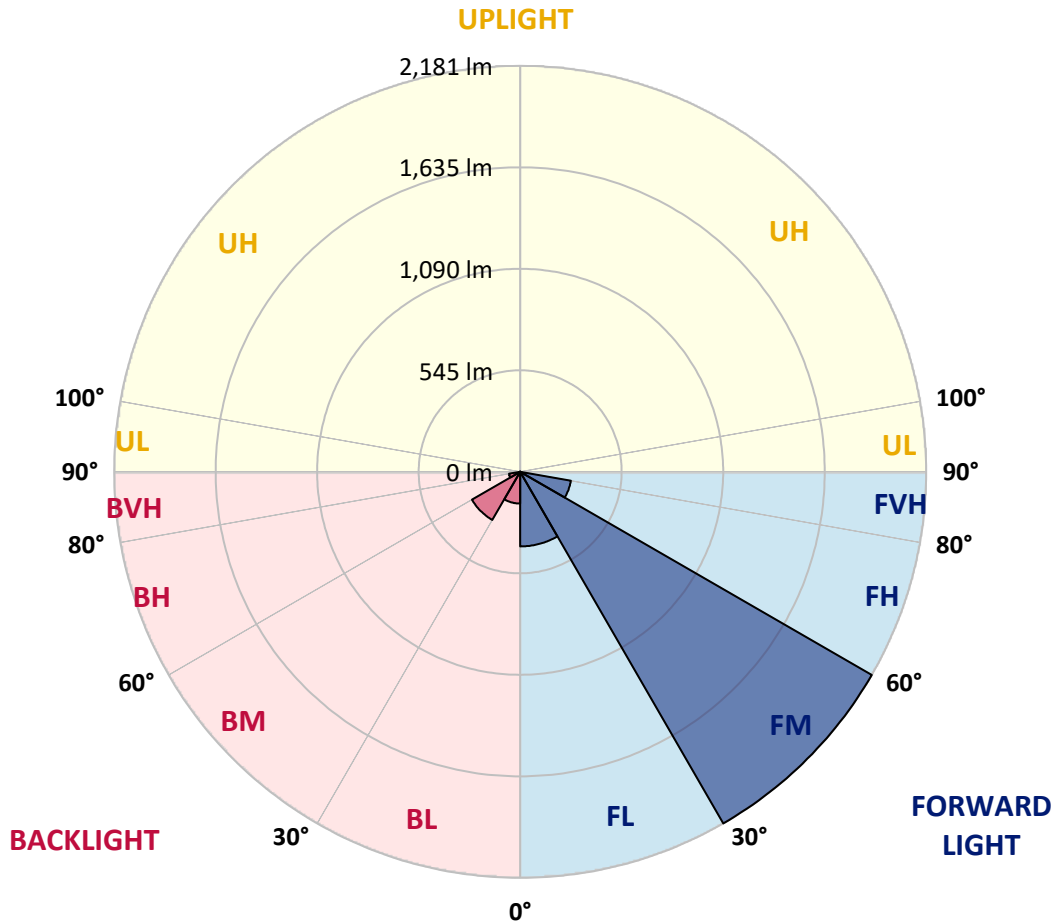
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	400.7	11.8			
FM (30°-60°)	2180.6	64.2			
FH (60°-80°)	276.6	8.2			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	170.6	5.0	B1/500		
BM (30°-60°)	298.8	8.8	B1/1000		
BH (60°-80°)	60.8	1.8	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	650.6	635.6	636.3	635.0	633.1	626.2	605.6	602.5	588.7	585.0	572.4
5°	728.8	715.7	723.2	712.0	701.3	695.1	661.3	645.6	623.7	615.6	598.1
7.5°	777.6	771.4	768.9	769.5	759.5	743.9	728.8	694.4	665.0	658.8	621.9
10°	801.4	797.7	801.4	799.5	803.9	805.8	779.5	758.9	715.7	705.1	647.5
12.5°	807.1	814.6	817.7	825.8	836.5	854.6	852.7	824.6	767.0	760.1	686.9
15°	820.8	827.1	823.9	837.1	857.1	887.8	904.0	899.6	837.7	825.2	732.6
17.5°	833.3	822.1	832.7	859.0	879.0	925.9	965.3	983.5	914.7	900.3	774.5
20°	850.2	847.1	845.2	858.4	894.0	956.6	1034.8	1067.9	1001.0	986.0	834.6
22.5°	901.5	902.1	900.9	881.5	907.2	977.8	1095.5	1177.4	1104.2	1091.7	902.8
25°	969.1	961.0	954.7	939.1	935.9	997.2	1156.8	1311.3	1228.1	1219.3	976.6
27.5°	1040.4	1040.4	1021.6	1007.3	987.2	1045.4	1213.1	1441.4	1377.6	1365.7	1041.0
30°	1118.0	1122.4	1119.9	1089.2	1076.7	1098.0	1270.6	1607.8	1549.0	1534.0	1147.4
32.5°	1232.5	1223.1	1233.7	1208.1	1171.2	1189.9	1361.4	1756.7	1771.8	1750.5	1286.9
35°	1383.9	1378.2	1371.4	1329.4	1285.7	1300.7	1489.6	1940.1	2051.4	2040.8	1427.7
37.5°	1519.6	1516.5	1510.9	1482.1	1431.4	1449.6	1635.4	2130.9	2324.2	2289.1	1626.6
40°	1662.3	1679.2	1661.0	1635.4	1589.1	1629.1	1806.8	2244.1	2553.8	2511.2	1778.6
42.5°	1855.6	1842.5	1850.6	1803.7	1778.6	1822.4	1978.8	2357.3	2732.1	2681.4	1940.1
45°	2061.4	2062.0	2040.2	2025.1	1960.1	2007.6	2084.6	2419.9	2874.1	2834.7	2062.0
47.5°	2193.4	2192.8	2216.6	2240.4	2173.4	2126.5	2156.5	2479.3	2947.3	2929.2	2106.5
50°	2172.8	2179.0	2209.7	2298.5	2333.6	2270.4	2224.1	2461.8	2980.5	2978.6	2144.6
52.5°	1890.0	1910.6	1961.9	2090.2	2266.6	2344.8	2294.8	2494.4	2996.7	2999.9	2201.6
55°	1438.9	1450.2	1547.8	1703.6	1898.8	2166.5	2266.6	2520.0	3009.2	3014.9	2270.4
56°	1248.1	1218.1	1358.9	1469.6	1702.9	1995.7	2195.3	2500.0	3001.7	3044.9	2304.8
57.5°	942.2	922.2	1036.0	1174.3	1398.9	1707.9	1973.8	2405.5	2951.1	2950.4	2255.4
60°	573.1	553.0	640.6	722.0	847.7	1051.7	1333.8	1915.7	2495.0	2547.5	1826.2
62.5°	341.0	353.5	439.8	489.2	529.9	551.2	690.1	1138.6	1664.8	1702.3	1133.0
65°	227.1	231.5	296.5	377.9	396.0	315.3	280.9	461.1	722.0	698.8	467.3
67.5°	140.1	150.1	198.9	284.0	314.7	230.2	133.3	172.0	198.9	198.9	135.1
70°	85.1	90.1	132.6	193.3	215.8	148.3	97.0	97.0	95.7	93.8	80.7
72.5°	40.7	43.8	67.6	99.5	101.4	78.2	75.1	82.0	80.1	79.5	66.9
75°	17.5	18.8	23.8	31.3	35.7	33.2	45.7	58.8	60.7	58.8	48.2
77.5°	5.6	6.3	8.8	11.3	11.9	14.4	19.4	24.4	28.2	26.3	23.8
80°	0.6	1.3	2.5	5.6	8.8	11.3	14.4	16.3	18.1	18.1	16.9
82.5°	0.6	0.6	2.5	5.0	8.1	10.6	13.8	15.6	18.1	18.8	17.5
85°	0.0	0.6	1.9	4.4	6.9	6.9	6.3	6.3	4.4	4.4	4.4
87.5°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	569.9	568.7	551.8	541.2	535.5	524.3	517.4	512.4	508.6	504.3	504.9
5°	577.4	573.1	544.9	525.5	502.4	489.9	479.2	470.5	464.8	463.6	461.1
7.5°	598.7	575.6	533.0	498.0	468.6	456.1	446.7	441.1	443.6	437.9	442.3
10°	615.0	580.6	518.6	468.0	438.6	429.2	424.2	428.6	434.8	432.3	429.2
12.5°	635.0	585.6	495.5	439.2	411.7	404.8	413.5	421.7	434.2	439.2	432.9
15°	657.5	591.2	466.1	406.0	388.5	394.1	409.2	423.5	436.1	442.3	446.1
17.5°	685.1	589.3	437.3	379.8	366.6	382.9	401.0	414.2	432.9	442.3	439.8
20°	710.7	583.1	405.4	353.5	354.1	369.1	384.1	405.4	415.4	427.9	423.5
22.5°	735.1	571.8	372.2	335.3	335.3	358.5	366.0	379.8	388.5	394.8	394.1
25°	769.5	550.5	344.7	317.8	325.3	340.3	346.6	351.0	347.2	352.2	352.9
27.5°	793.9	528.7	322.2	302.2	315.9	327.2	325.3	322.8	314.1	307.2	311.6
30°	820.2	503.0	302.8	291.5	299.0	309.1	301.5	294.0	280.3	269.0	269.6
32.5°	857.7	491.1	285.9	279.0	289.0	290.3	282.2	270.9	257.1	246.5	245.9
35°	927.8	483.6	271.5	270.9	272.8	273.4	265.3	251.5	245.9	237.1	240.2
37.5°	997.9	479.9	261.5	259.0	258.4	259.0	249.6	236.5	247.1	246.5	247.7
40°	1087.3	496.7	247.1	244.0	244.6	244.6	232.7	229.0	247.7	249.6	250.2
42.5°	1178.0	518.0	237.7	227.7	230.2	230.2	224.0	219.6	232.7	220.2	218.3
45°	1256.9	549.3	227.7	211.5	217.7	220.8	219.0	211.5	203.3	182.1	182.1
47.5°	1282.5	576.8	215.8	195.8	200.8	214.6	209.0	193.3	178.9	161.4	160.2
50°	1327.6	606.9	206.5	177.7	188.3	205.2	199.6	183.9	167.7	155.2	155.8
52.5°	1373.9	641.3	188.9	156.4	169.5	197.7	197.7	180.2	155.2	146.4	145.1
55°	1443.3	640.0	157.7	128.3	151.4	186.4	189.6	161.4	138.9	132.0	132.0
56°	1453.3	611.2	142.0	120.1	143.3	183.3	183.9	156.4	132.6	125.1	125.1
57.5°	1378.2	551.8	124.5	110.1	133.3	177.7	178.3	152.0	127.6	117.0	115.7
60°	1060.4	373.5	103.9	98.2	120.7	160.2	163.3	138.3	112.0	103.9	103.2
62.5°	598.7	207.1	91.3	88.8	103.9	136.4	145.8	120.7	95.1	90.7	92.0
65°	273.4	113.9	77.0	71.9	83.8	105.1	117.6	99.5	78.2	73.2	73.2
67.5°	100.1	77.6	65.7	56.9	58.8	68.2	76.3	64.4	51.9	44.4	46.3
70°	71.3	65.1	57.6	49.4	45.7	44.4	43.8	36.3	25.7	20.0	21.3
72.5°	57.6	53.8	48.2	41.9	35.7	30.0	25.7	18.8	11.9	8.1	7.5
75°	41.3	39.4	35.0	30.0	25.0	21.3	17.5	11.9	6.3	3.1	3.1
77.5°	21.3	21.3	20.6	18.8	15.6	12.5	10.0	6.9	3.8	1.3	1.3
80°	16.3	17.5	18.1	16.3	14.4	11.3	8.1	5.0	2.5	0.6	0.6
82.5°	15.6	18.1	19.4	16.9	14.4	10.6	8.1	5.0	2.5	0.6	0.6
85°	3.8	3.8	5.6	6.3	8.1	8.8	6.9	4.4	1.9	0.6	0.6
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)